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3. Page 1 4 Families of Elliptic Curves and Geometric Properties of  
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giving an **elliptic curve**  $E$  over  $k(t)$ , then we can substitute in any value for  $t \in T$ ,  
the ..... or in **affine coordinates** with  $w = -1$ , it has the form ... The **Jacobi** family  
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Expressing it in **affine coordinates** we show that it is non-degenerate.  
..... For example, an **elliptic curve** acquiring a double point is rationally  
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**Jacobi** ...  
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A point on an **elliptic curve** can be represented by several types of coordinate,  
for example by **affine coordinates** or **Jacobi** projective coordinates. ....  
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Rolling Factors Deformations and Extensions of Canonical Curves

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t) as **affine coordinates** ..... rationally ruled surface over a (hyper)**elliptic curve** E with a rational curve. E of double points, the canonical image of E ..... from which z may be eliminated to obtain a **quartic equation** for y. The case ..... of the **Jacobi** matrix of the system of equations (R) together with the  $\pi$  ...  
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Let V be the divisor cut out from  $P_3$  by the **quartic equation** (6.13) 4 4 4 ..... A way to check that the construction of the **Jacobi** variety does not .... We want to show that every smooth **elliptic curve** can be realized in this ... Thus C may be described as a locus in  $P_2$  whose equation in **affine coordinates** is (8.9) ...  
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by the **quartic equation** ..... A way to check that the construction of the **Jacobi** variety does not depend on the choices we have made is to restate it invariantly. .... We want to show that every smooth **elliptic curve** can be .... (we use the same **affine coordinates** as in the previous representation). Since ...  
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ant of an **elliptic curve** E and the isogeneous **elliptic curve**  $E/(t$  ..... In **affine coordinates**, it is given by.  $T : (x, y) \mapsto (x$  ..... The Abel-**Jacobi** Theorem asserts that p is zero on principal divisors (Abel's ..... After getting rid of squares, we obtain the **quartic equation** of C ...  
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1. [arXiv:math.AG/0006189 v1 26 Jun 2000](#)

t) as **affine coordinates** on  $C$  ..... ruled surface over a (hyper)**elliptic curve**  $E$  with a rational curve  $E$  of double points, the canonical image of  $E$ , ...  
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2. [PDF]

### Elliptic Curves

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The **Elliptic Curve** Group Law on the Intersection of Two Quadrics in Projective Three Space . .... **Jacobi** q-Parametrization: Application to Real Curves . ....  
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3. Jordan's totient function

... of a vector-valued function **Jacobi** matrix Jacobian [planetmath.org 847 1858](http://planetmath.org/8471858)  
.... 24 msc:11G07 msc:11G05 msc:14H52 **elliptic curve**  $\mathfrak{p}$ -function

...  
[br.endernet.org/~akrownie/planetmath/soc/nexus/svn/trunk/pmout.xml](http://br.endernet.org/~akrownie/planetmath/soc/nexus/svn/trunk/pmout.xml) - Similar pages

4. [APPLICATION] Method for universal calculation applied to points of an elliptic ... - Google Patents Result

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A method according to claim 1, wherein the **elliptic curve** is defined by a **quartic equation** of the type:  $V^2=b \cdot U^4+a \cdot U^3W+UW^3$ ,  $(U:V:W)$  being Jacobi projective

...  
[www.google.com/patents?id=k6GaAAAAEBAJ](http://www.google.com/patents?id=k6GaAAAAEBAJ)

5. [APPLICATION] Method for universal calculation applied to points of an elliptic ... - Google Patents Result

US Pat. App 10523840 - Gemplus

... the concern is with the **elliptic curve** models defined by a **quartic equation** ...  
[0060] The general form of a quartic, in **affine coordinates**, is given by ...  
[www.google.com/patents?id=k6GaAAAAEBAJ](http://www.google.com/patents?id=k6GaAAAAEBAJ)

6. Husemoller D. Elliptic curves (2ed., Springer, GMT111, 2004)(T)(510s)

Let  $E$  be an **elliptic curve** over a field  $k$ . For each field extension  $K$  of  $k$  the ...  
Away from the origin in the **elliptic curve**, we set  $w = 1$  and consider the ...  
[booklists.narod.ru/M\\_Mathematics/.../Husemoller\\_D.\\_Elliptic\\_curves\\_2ed.\\_Springer\\_GMT111\\_2004\\_T\\_510s\\_MAg\\_3.htm](http://booklists.narod.ru/M_Mathematics/.../Husemoller_D._Elliptic_curves_2ed._Springer_GMT111_2004_T_510s_MAg_3.htm) - Similar pages

7. Husemoller D. Elliptic curves (2ed., Springer, GMT111, 2004)(T)(510s)

Finally, if  $? is an **elliptic curve** defined over  $k$ , then  $E(k')$  is a  $G$ -group with  $E(k')G = E(k)$ . This can be seen directly with **affine coordinates** or from the ...$

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